

**CLAIMS**

1. A chelator-derivatised amino acid comprising: 1) an optionally protected primary or secondary amino group; 2) a carboxylic acid group; 3) a chelator group capable of  
5 binding a metallic radionuclide.
2. A chelator-derivatised amino acid according to Claim 1, wherein the chelator group is a hynic (hydrazinonicotinamide) group.
- 10 3. A chelator-derivatised amino acid according to Claim 2 wherein the hynic hydrazine group is protected.
4. A chelator-derivatised amino acid according to Claim 3 wherein the hynic hydrazine group is protected by a Boc or trifluoroacetyl protecting group.  
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5. A chelator-derivatised amino acid according to any preceding claim, wherein the amine and carboxylic acid groups are embodied in the amino acid L-lysine or a homologue thereof.
- 20 6. A chelator-derivatised amino acid according to Claim 5, wherein the amino acid is L-lysine or L-ornithine.
7. A chelator-derivatised amino acid according to Claim 6, wherein the amino acid is L-lysine.  
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8. A chelator-derivatised amino acid according to any preceding claim, wherein the amino group is protected.
9. A chelator-derivatised amino acid according to Claim 8, wherein the amino group  
30 is protected with an Fmoc protecting group.

10. A method of synthesising a peptide comprising a chelator, the method comprising incorporation into the peptide of a chelator-derivatised amino acid according to any one of claims 1 to 9.
- 5 11. A method according to Claim 10 wherein the peptide is synthesized by solid phase peptide synthesis.
12. A peptide obtained according to a method of Claims 10 or 11.
- 10 13. A peptide comprising the amino acid sequence of salmon calcitonin in which lysine-18 is replaced by lysine-hynic.